

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Chicago**

Site Summary Level: **Brookhaven National Laboratory**

Project **CH-BRNLBYW / BNL Boneyard Waste**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0033**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Legacy low level radioactive wastes have accumulated in the former Hazardous Waste Management Facility (Area of Concern 1). This project scope includes the disposal of these wastes as a prerequisite to remediation of soils at this Facility which is part of Operable Unit I. In addition, deteriorated packaging poses additional medium to high risks to soils at this Facility.

The technical approach for this project is to package and transport these wastes for off-site disposal. This work involves the following:

1. 25 Argone Bins with ~178,000 pounds of contaminated sludges.
2. 200 compacted 55 gallon drums with ~ 90,000 pounds of dry active waste.
3. Approximately 225, 55-gallon drums with ~95,000 pounds of solidified evaporator bottoms.
4. 12 concrete containers with ~216,000 pounds of various wastes. -
5. ~50 connexes with ~400,000 pounds of wastes.

A combination of treatment and disposal at DOE Hanford and commercial treatment/disposal facilities is planned.

Project Status in FY 2006:

By the end of FY 2006, all waste at the Former Hazardous Waste Management Facility will be removed.

Post-2006 Project Scope:

No additional activities are expected for this project beyond FY2006.

Project End State

The end state for the Boneyard Waste project is that all wastes will be removed from the Former Hazardous Waste Management Facility. The end state will be met by FY 2006.

Cost Baseline Comments:

A revised baseline for this project was completed in March 1999. Estimated costs are based on available material descriptions. Transportation, processing and disposal costs may change.

Safety & Health Hazards:

The primary health and safety concern is exposure of the workers to radioactive waste material.

Safety & Health Work Performance:

Within the boneyard waste project, health and safety support and oversight of the packaging of the waste materials is conducted. The work is performed with ALARA objectives.

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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Project Description Narratives

PBS Comments:

The Boneyard Waste project is essential in order to accomplish the work required under the DOE/EPA/NYSDEC Interagency Agreement. This waste must be removed in order to conduct the clean-up of the radiologically-contaminated soils in OU I. This project a

Baseline Validation Narrative:

Technical scope and schedule validation was performed by the DOE Federal Energy Technology Center (FETC) and the Huntington District U.W. Army Corps of Engineers (USACE) (reference: Brookhaven National Laboratory Baseline Validation Report, September 8-17, 1998)

General PBS Information

Project Validated? Yes Date Validated: 9/17/1998

Has Headquarters reviewed and approved project? No

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/7/1999

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	N	N	N	N	N	Y	N

Project Identification Information

DOE Project Manager: Gail Penny

DOE Project Manager Phone Number: 516-344-3429

DOE Project Manager Fax Number: 516-344-3444

DOE Project Manager e-mail address: gpenny@bnl.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
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Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	11,763	0	11,763	372	372	1,486	1,486	1,139	2,787	3,609	2,370	0	0	0	0	
PBS Baseline (constant 1999 dollars)	11,321	0	11,321	372	372	1,486	1,486	1,139	2,714	3,422	2,188	0	0	0	0	
PBS EM Baseline (current year dollars)	11,763	0	11,763	372	372	1,486	1,486	1,139	2,787	3,609	2,370	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	11,321	0	11,321	372	372	1,486	1,486	1,139	2,714	3,422	2,188	0	0	0	0	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%

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2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 8/1/2000

Current Projected End Date of Project: 9/30/2002

Explanation of Project Completion Date Difference (if applicable):

Resequencing and reprioritization.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	8,135	Actual 1997 Cost:	372	Actual 1998 Cost:	1,486
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	6,277	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			169
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	6,446				

Project Cost Changes

Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+): 3,018 Previously omitted costs for contingency, characterization and packing were added.

Cost Growth Associated with Scope Previously Reported (+):

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal: 9,464

Additional Amount to Reconcile (+): -1

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 9,463

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Boneyard - All Wastes Removed	CH-BRNL-BYW-002		9/30/2002								
Issue Statement of Work for Copper Disposal	CH-BRNL-BYW-001		12/14/1998		3/1/1999						
Project Mission Complete	CH-BRNL-BYW-003		9/30/2002								
Project Start	CH-BNL-BYW-004		10/1/1996								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Boneyard - All Wastes Removed	CH-BRNL-BYW-002		Y		Y		1	1	1		
Issue Statement of Work for Copper Disposal	CH-BRNL-BYW-001										
Project Mission Complete	CH-BRNL-BYW-003				Y					Y	
Project Start	CH-BNL-BYW-004			Y							

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
LLW														
Storage	M3							1,212.20	1,101.20	1,083.20	816.00	0.00	0.00	0.00
LLW														
Ship to DOE Disp.	M3	961.40	0.00	961.40				0.00	88.00	0.00	57.40	816.00		
Rem. Waste														
Disposed	M3	4,011.13	0.00	4,011.13					233.59	20.00	78.94	3,678.60		

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
LLW													
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LLW													
Ship to DOE Disp. Rem. Waste	M3												
Disposed	M3												
Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2065	Planned 2066 - 2070	Exceptions	Lifecycle Total			
LLW													
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
LLW													
Ship to DOE Disp. Rem. Waste	M3									873.40			
Disposed	M3									3,777.54			